

REMARKS

In response to the Office Action dated August 31, 2006, Applicant respectfully requests reconsideration based on the above claim amendments and the following remarks. Applicant respectfully submits that the claims as presented are in condition for allowance.

Claims 1-5, 7-10, 13-15 and 18-22 are pending in the present Application. Claims 1 and 7 are amended to better set forth the invention, leaving Claims 1-5, 7-10, 13-15 and 18-22 for consideration upon entry of the present amendment and following remarks.

No new matter has been introduced by these amendments. Reconsideration and allowance of the claims are respectfully requested in view of the above amendments and the following remarks.

Claim Rejections Under 35 U.S.C. §112

In the outstanding Office action, the Examiner has rejected Claims 1-5, 7-10, 13-15 and 18-22 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctively claim the subject matter, which Applicant regards as the invention. The Examiner states that the last sentences in Claims 1 and 9 contradict Figures 3 and 6. Applicant respectfully traverses the rejections.

Claim 1 recites:

“A liquid crystal display device comprising:

a liquid crystal panel including a first display signal wire having a plurality of a first display signal lines, a second signal wire having a plurality of a second display signal lines that cross the first display signal lines, a plurality of switching elements each of which is connected to both of one of the first display signal lines and one of the second display signal lines, and pixel electrodes connected to the switching elements;

a first driving signal wire transmitting driving signals for first display signal lines, wherein the first driving signal wire is separated from the first and second display signal wires, the switching elements, and the pixel electrodes, and includes a first pad connected thereto at its near end; and

a plurality of first connecting lines disposed between the first driving signal wire and a part of the first display signal wire, and connected to the first driving signal wire;

wherein the first connecting lines are electrically disconnected from the part of the first display signal wire.”

FIG. 6 is an enlarged view of driving signal wire and shorting bar of FIG. 3A. In a non-limiting embodiment as illustrated in FIG. 6, “first display signal lines” may be considered as gate lines 121 illustrated in FIG. 6. A collection of the first display signal lines (e.g., gate lines 121) may be considered the “first display signal wire” of Claim 1.

In FIG. 6, the lower/right gate driving signal line/wire 132 may be considered the “first driving signal wire,” the upper/left gate driving signal line/wire 132 may be considered the “second driving signal wire,” the shorter (upper) connecting member 94 may be considered the “first connecting line” and the longer (lower) connecting member 94 may be considered the “second connecting line.”

“A part” of the first display signal wire of Claim 1 may be considered as those first display signal lines (e.g., gate lines 121) connected to the longer connecting member 94. The “another part” of the first display signal wire of Claim 9 may be considered as those first display lines (e.g., gate lines 121) connected to the shorter 94 connecting member in FIG. 6.

The first driving signal wire (e.g., lower/right gate driving signal line 132) transmits signals for first display signal lines (e.g., gate lines 121) connected to the shorter connecting member 94 through contact holes 186 and 187 of Claim 1. The first connecting lines (e.g., shorter connecting members 94) are disposed between the first driving signal wire (e.g., the lower/right gate driving signal line 132) and those first display signal lines (e.g., gate lines 121) connected to the longer connecting member 94 (e.g., “a part of the first display signal wire) of Claim 1. The first connecting lines (e.g., shorter connecting members 94) are also connected to the first driving signal wire (e.g., lower/right gate driving signal line 132) of Claim 1. Finally, the first connecting lines (e.g., shorter connecting members 94) are electrically disconnected from those first display signal lines (e.g., gate lines 121) connected to the longer connecting member 94 (e.g., “a part of the first display signal wire) of Claim 1.

Therefore, Applicant respectfully submits that wherein the first connecting lines are electrically disconnected from the part of the first display signal wire of Claim 1 is not contradicting with the features illustrated in Figures 3 and 6 and the first driving signal wire (e.g., lower/right gate driving signal line 132) *can* transmit driving signals for first display signal lines (e.g., gate lines 121) in lines 7 and 8 of Claim 1.

Claim 9 recites:

“The liquid crystal display device of claim 7, further comprising a plurality of second connecting lines disposed between the second driving signal wire and at least another part of the first display signal wire, and connected to the second driving signal wire,
wherein the second connecting lines are electrically disconnected from the another part of the first display signal wire.”

As discussed above, the upper/left gate driving signal line 132 may be considered the “second driving signal wire,” the longer (lower) connecting member 94 may be considered the “second connecting line” and the “*another part*” of the first display signal wire of Claim 9 may be considered as those first display lines (e.g., gate lines 121) connected to the shorter connecting member in FIG. 6.

Following the above discussion, the second driving signal wire (e.g., upper/left gate driving signal line 132) transmits signals for first display signal lines (e.g., gate lines 121) connected to the longer connecting member 94 through contact holes 186 and 187 as in Claim 7. The second connecting lines (e.g., longer connecting members 94) are disposed between the second driving signal wire (e.g., the upper/left gate driving signal line 132) and those first display signal lines (e.g., gate lines 121) connected to the shorter connecting member 94 (e.g., “*another part* of the first display signal wire) of Claim 9. The second connecting lines (e.g., longer connecting members 94) are also connected to the second driving signal wire (e.g., upper/left gate driving signal line 132) of Claim 9. Finally, the second connecting lines (e.g., longer connecting members 94) are electrically disconnected from those first display signal lines (e.g., gate lines 121) connected to the shorter connecting member 94 (e.g., “*another part* of the first display signal wire) of Claim 9.

Therefore, Applicant respectfully submits that wherein the second connecting lines are electrically disconnected from the another part of the first display signal wire of Claim 9 is also not contradicting with the features illustrated in Figures 3 and 6.

Thus Applicant respectfully submits that Claim 1 and Claims 2-5, 7-10, 13-15 and 18-22 as depending upon Claim 1, satisfy the provisions of 35 USC §112, second paragraph. Reconsideration, withdrawal of the relevant rejections and allowance of Claim 1 and Claims 2-5, 7-10, 13-15 and 18-22 as depending upon Claim 1, are respectfully requested.

Conclusion

All of the objections and rejections are herein overcome. In view of the foregoing, it is respectfully submitted that the instant application is in condition for allowance. No new matter is added by way of the present Amendments and Remarks, as support is found throughout the original filed specification, claims and drawings. Prompt issuance of Notice of Allowance is respectfully requested.

The Examiner is invited to contact Applicant's attorney at the below listed phone number regarding this response or otherwise concerning the present application.

Applicant hereby petitions for any necessary extension of time required under 37 C.F.R. 1.136(a) or 1.136(b) which may be required for entry and consideration of the present Reply.

If there are any charges due with respect to this Amendment or otherwise, please charge them to Deposit Account No. 06-1130 maintained by Applicant's attorneys.

Respectfully submitted,

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